



Sindh Technical Education & Vocational Training Authority  
(STEVTa)  
Government of Sindh



**ESTABLISHMENT OF GOVERNMENT  
MONOTECHNIC INSTITUTE ASSU GOTH, MALIR  
TOWN, KARACHI (REMAINING WORK)**

**BILL OF QUANTITIES**



**SHAHZAD  
ASSOCIATES**  
CONSULTING ARCHITECTS, ENGINEERS & PLANNERS

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**ESTABLISHMENT OF GOVT. MONOTECHNIC INSTITUTE, ASSU GOTH, MALIR TOWN,  
KARACHI (REMAINING WORK)**

**SUMMARY OF COST**

<b>S #</b>	<b>SUB HEAD</b>	<b>TOTAL AMOUNT</b>
1	Cost of Civil Work (Scheduled Items) (Page No. 02 - 08)	Rs=
2	Cost of Civil Work (Non-Scheduled Items) (Page No. 09 - 09)	Rs=
	Sub Total of Civil Work	<b>(A)</b>
3	Cost of Plumbing Work (Scheduled Items) (Page No. 10 - 12)	Rs=
4	Cost of Plumbing Work (Non-Scheduled Items) (Page No. 13 - 14)	Rs=
	Sub Total of Plumbing Work	<b>(B)</b>
<b>Total Cost of Work (A+B)=</b>		<b>Rs=</b>

**ESTABLISHMENT OF GOVT. MONOTECHNIC INSTITUTE, ASSU GOTH, MALIR TOWN,  
KARACHI (REMAINING WORK)**

**REPAIRING WORK BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	<b>EXCAVATION IN FOUNDATION</b> Excavation in Ordinary Soil in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth watering and ramming lead upto 5 ft. (Page No. 4, Item No. 18-b)	5,800.00	%0Cft	3,176.25	18,422.25
2	<b>IMPORTED EARTH FILL</b> Filling, watering and ramming earth under floor with new earth (excavated from outside) lead upto one chain and lift upto 5 feet. (Page No. 4, Item No. 22)	5,000.00	%0Cft	3,630.00	18,150.00
3	<b>SUPPLY OF RIVER / PIT</b> Supply of clean / screened (river or pit) sand within 5 chains including removal of top crust of earth or over burden and royalty to the Government or cost to the Private Owner. (Page No. 6, Item No. 36)	5,000.00	%Cft	420.00	21,000.00
	Add: extra lead 6 mile (referred from carriage of materials schedule)	5,000.00	%Cft	771.96	38,598.00
4	<b>TERMITE PROOFING</b> Providing anti-termite treatment by spraying / sprinkling / spreading Neptachler 0.5% Emulsion as an overall pre-construction treatment in slab type construction under the slab and attached perches or entrances etc. complete in all respect as per directions of the Engineer-in-Charge (Page No. 108, Item No. 92)	2,500.00	Per Sft	9.74	24,350.00
5	<b>CC IN FOUNDATION</b> Cement concrete plain (ratio 1:4:8) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5-i)	700.00	%Cft	11,288.75	79,021.25

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**REPAIRING WORK BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
6	<b>SUB FLOORING</b> Cement concrete plain 4" thick - ratio (1:3:6) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5-h)	625.00	%Cft	12,595.00	78,718.75
7	<b>RCC WORK</b> Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) Page No. 15. Item No. 6.  R.C. work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.				
a	<b>Columns Footing</b> - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¼" gauge.	1,150.00	Per Cft	337.00	387,550.00
b	<b>Beam &amp; Lintels</b> - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¼" gauge.	400.00	Per Cft	337.00	134,800.00
c	<b>Slabs &amp; Projection</b> (6" thick) - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¼" gauge.	1,200.00	Per Cft	337.00	404,400.00
d	<b>Sun Shade</b> (4" thick) - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¼" gauge.	100.00	Per Cft	337.00	33,700.00
e	Plinth Beam (Ratio 1:2:4)	400.00	Per Cft	337.00	134,800.00
f	Columns Super Structure 1:2:4	300.00	Per Cft	337.00	101,100.00

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**REPAIRING WORK BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
8	<b>SITU 1:3:6</b> Cement concrete plain ratio (1:3:6) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate with shuttering (Page No. 15, Item No. 5-h+17/19b(i))	650.00	%Cft	16,183.48	105,192.62
9	<b>DAMP PROOF COURSE</b> Damp proof course 2" thick with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture. (Page No. 18, Item No. 28-b)	160.00	%Sft	3,912.85	6,260.56
10	<b>PLINTH PROTECTION</b> Excavation in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth watering and ramming lead upto 5 ft. (Page No. 4, Item No. 18-b)				
a	In Ordinary Soil	2,800.00	%0Cft	3,176.25	8,893.50
	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5)				
b	Ratio 1:4:8	400.00	%Cft	11,288.75	45,155.00
c	Ratio 1:2:4	300.00	%Cft	14,429.25	43,287.75
d	¾" thick Cement Plaster 1:4 upto 12' height. (Page No. 51, Item No. 11-c)	1,700.00	%Sft	3,015.76	51,267.92
11	<b>STEEL REINFORCEMENT</b> Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars) Page No. 16, Item No. 8-b.				
	Using Tor Bars	220.00	Per Cwt	5,001.70	1,100,374.00

**ESTABLISHMENT OF GOVT. MONOTECHNIC INSTITUTE, ASSU GOTH, MALIR TOWN,  
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**REPAIRING WORK BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
12	<b>G.I.FRAMES FOR DOOR</b> Providing and fixing G.I. Frames / Choukhats of size 7" X 2" or 4½ X 3" for door using 20 gauge G.I. sheet including welded hinges and fixing at site with necessary hold fasts, filing with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also includes all carriage tools and plants used in making and fixing. (Page No. 92, Item No. 29)	80.00	Per Rft	228.90	18,312.00
13	<b>FLUSH DOOR</b> First class deodar wood wrought, joinery in doors and windows etc. fixed in position including chowkats hold fasts hinges, iron tower bolts, chocks cleats handles and cords with hooks, etc. (Page No. 57, Item No. 7b)  Rate of Door: Rs. 1,227.36 - G.I. Frame Rs. 228.90 = Door & Windows (Rs. 998.46)	120.00	Per Sft	998.46	119,815.20
14	<b>ALUMINUM WINDOWS / VENTILATORS</b> Supply & fixing Deluxe Model (Bronze) in position Aluminum channels framing for sliding windows & ventilators of Alcop made with 5mm thick tinted glass glazing (Belgium) & Aluminum fly screen including handless stoppers & locking arrangement etc. complete (Page No. 107, Item No. 84(b))	300.00	Per Sft	1,647.69	494,307.00
15	<b>BLOCK MASONRY (6" THICK)</b> Providing and laying 1:3:6 cement concrete solid block masonry wall 6" and below in thickness set in 1:6 cement mortar in ground floor super structure including raking out joints and curing etc. complete. (Page No. 18, Item No. 24)	2,650.00	%Cft	15,771.01	417,931.77
16	<b>TILES</b> Laying floor of approved with glazed / porcelain tile ¾" thick in white cement 1:2 over ¾" thick cement mortar 1:2. complete. (Page No. 42, Item No. 24)	4,700.00	%Sft	27,678.86	1,300,906.42

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**REPAIRING WORK BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
17	White glazed tiles ¾" thick dado jointed in white cement and laid over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 37)	800.00	%Sft	28,253.61	226,028.88
18	<b>PRIMING COAT</b> Priming coat of chalk distemper (Page No. 53, Item No. 22)	31,500.00	%Sft	442.75	139,466.25
19	<b>DISTEMPERING</b> Preparing surface and painting with Distemper- 1st coat over priming coat (Page No. 53, Item No. 24-c) 3 Coats	2,500.00	%Sft	1,079.65	26,991.25
20	<b>INTERNAL WALL PAINTING</b> Preparing the surface and painting with matt finish including rubbing the surface with bathy (silicon carbide rubbing brick) filling the voids with zink / chalk / plaster of paris mixture, applying first coat premix, making the surface smooth and then painting 3 coats with matt finish of approved make etc. complete (new surface). Page No. 54, Item No. 36-b. (3 Coats)	5,000.00	%Sft	3,444.38	172,219.00
21	<b>WEATHER COAT</b> Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of paris and then painting with weather coat of approved make. (Page No. 55, Item No. 38-a&b)	24,000.00	%Sft	2,567.95	616,308.00

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**REPAIRING WORK BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
22	<b>TEXTURE COATING</b> Preparing the surface and applying rock wall / shield (Natural wall texture) coating to provide durable curst to wall thickness between 2mm to 32 mm ( $\frac{1}{8}$ " ) with acrylic co-polymer emulsion, selected marble chips, adhesive and bactericides water resistance and fire and termite resistance (upto 20'-0" height). Page No. 55, Item No. 43)	500.00	%Sft	4,504.50	22,522.50
23	<b>ENAMEL PAINT ON WOOD WORKS</b> Preparing surface and painting of doors and windows any type (including edges) 3 Coats (Page No. 68, Item No. 5-C-i+ii)	240.00	%Sft	2,116.41	5,079.38
24	<b>ENAMEL PAINT ON IRON WORKS</b> Painting guard bars, gates iron bars gratings, railing including standard braces etc. and similar open work (3 Coats) Page No. 68, Item No. 4-d-ii)	450.00	%Sft	977.40	4,398.30
25	<b>FALSE CEILING</b> Supplying and fixing false ceiling of plaster of paris in panels including making frame work of deodar wood including painting with soligia paint. (Page No. 63, Item No. 52)	200.00	%Sft	25,293.42	50,586.84
26	<b>WOODEN ARCHITRAVE</b> Providing and fixing with sunk iron screws wooden Architrave approved design / shape having width not less than 2½ inches as directed by Engineer-in-Charge. (Page No. 65, Item No. 60)	300.00	Per Rft	49.97	14,991.00
27	<b>GLAZED CERAMIC TILE (BATHROOM)</b> Laying floors of approved coloured glazed tiles $\frac{1}{4}$ " tihck laid in white cement and pigment on a bed of $\frac{3}{4}$ " thick cement mortar 1:2. (Page No. 42, Item No. 25)	650.00	%Sft	27,747.06	180,355.89

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**REPAIRING WORK BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
28	Glazed tile dado ¾" thick laid in pigment over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 38)	2,500.00	%Sft	28,299.30	707,482.50
29	<b>SURFACE RENDERING</b> Cement Plaster 1:5 upto 12' height				
	¾" thick Plaster (Page No. 51, Item No. 12-a)	24,000.00	%Sft	2,166.72	520,012.80
a	½" thick <u>Ceiling &amp; Internal Plaster</u> (Page No. 51, Item No. 12-b)	7,500.00	%Sft	2,241.80	168,135.00
b	¾" thick <u>External Wall Plaster</u> (Page No. 51, Item No. 12-c)	24,000.00	%Sft	2,678.50	642,840.00
30	<b>IRON GRILL</b> Providing and fixing iron steel grill using solid square bars of size ½" X ½" placed at 4" including and frame of flat iron patti of ¾" X ¾" including circle shape at 1-0 apart equivalent fitted with screws are pins with painting 3 coats with 1st coat of red oxide paint etc. (Page No. 93, Item No. 30)	300.00	Per Sft	194.16	58,248.00
31	<b>ROOF SCREEDING</b>				
a	Providing and laying 3" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels. (Page No. 41, Item No. 16-d)	2,500.00	%Sft	4,411.82	110,295.50
b	Two coats of bitumen laid hot using 34 lbs for %Sft over roof and blinded with sand at one Cft Per %Sft. (Page No. 34, Item No. 13)	2,500.00	%Sft	1,887.40	47,185.00
Sub Total				Rs=	8,899,460.08
_____ above / below					
Cost of Civil Work (Scheduled Items)					

**ESTABLISHMENT OF GOVT. MONOTECHNIC INSTITUTE, ASSU GOTH, MALIR TOWN,  
KARACHI (REMAINING WORK)**

**REPAIRING WORK BILL OF QUANTITIES**

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
32	<b>STONE SOLING</b> Providing and laying soling stone 6" to 9" thick under floor including packing with spawls and chips and consolidation with compactor, watering etc. complete in all respect as per instructions of the Architect / Engineer-in-Charge.				
a	Plinth Protection	800.00	P.Cft		
b	Under Floor	1,200.00	P.Cft		
33	<b>ROOM DOOR LOCKS</b> Providing and fixing with C.P brass screws carona, yale lock of approved design, manufacturer, and colour Japan make, cutting wood to required shape and size with three operating keys. complete in all respect as per specification, drawings and instructions of the Engineer-in-Charge.	4	Each		
Cost of Civil Work (Non-Schedule Items)				Rs=	130,000.00

**ESTABLISHMENT OF GOVT. MONOTECHNIC INSTITUTE, ASSU GOTH, MALIR TOWN,  
KARACHI (REMAINING WORK)**

**REPAIRING WORK BILL OF QUANTITIES**

(Plumbing Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
34	<b>PAKISTANI WC</b> Providing and fixing squatting type white glazed earthen ware W.C. Pan with front flush inlet and complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth and floor for pipe connection and making good in cement concrete 1:2:4 (foreign equivalent) with 4" dia C.I. Trap (Page No. 1, Item No. 2-a)	4	Each	5,728.80	22,915.20
35	<b>EUROPEAN WC</b> Providing and fixing European white glazed earthen ware wash down W.C. Pan complete with and including the cost of white / black plastic seat (best quality) and lid with c.p. brass hinges and buffers, 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½" dia white porcelain enamelled flush bend ¾" dia and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement 1:2:4 (foreign quality) Page No. 2, Item No. 5.	2	Each	4,440.70	8,881.40
36	<b>LAVATORY BASIN</b> Providing and fixing 24" X 18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever brackets 6" built into walls painted white in two cats after a primary coat of red lead paint a pare of ½" dia rubber plug and chrome plated brass chain 1¼" dia malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4 (foreign equivalent) Page No. 3, Item No. 10.	2	Each	4,928.00	9,856.00

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**REPAIRING WORK BILL OF QUANTITIES**

(Plumbing Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
37	<b>BATHROOM ACCESSORIES</b> Supply and fixing Bathroom Accessories set (7 Piece) including towel rod, brush holder, soap tray, shelf of approved design including cost of screws, nuts etc. complete (Master Brand or as recommended by Engineer-in-Charge). Page No. 19, Item No. 23	2	Each	10,322.40	20,644.80
38	<b>BIB COCKS</b> Supply and fixing C.P. Muslim Shower with double Bib Cock and ring pipe etc. complete (Page No. 19, Item No. 19-a)	4	Each	3,432.00	13,728.00
39	<b>MUSLIM SHOWER</b> Supply and fixing C.P. Muslim Shower with crystal head etc. complete (Page No. 19, Item No. 19-b)	4	Each	3,432.00	13,728.00
40	<b>STOP COCK</b> Supply and fixing concealed tee- stop cock of superior quality with c.p. head ½" dia (Page No. 18, Item No. 12-a)	4	Each	843.92	3,375.68
41	Supply & fixing long bib cock of superior quality with c.p.head ½" dia. (Ch-6, Page No. 19, Item No. 13-b)	2	Each	1,109.46	2,218.92
42	<b>uPVC Pipe</b> Providing and laying uPVC Pipes of Class 'D' fixing in trench including cutting, fitting and jointing with solven cement including testing with water to a head of 122 meter or 400 ft. (Page No. 24, Item No. 6).				
a	½" dia	200.00	Rft	12.00	2,400.00
b	¾" dia	150.00	Rft	19.00	2,850.00
c	1" dia	150.00	Rft	27.00	4,050.00
d	1¼" dia	200.00	Rft	33.00	6,600.00
e	1½" dia	300.00	Rft	43.00	12,900.00

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**REPAIRING WORK BILL OF QUANTITIES**

(Plumbing Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
43	<b>GUN METAL VALVES</b> Providing and fixing full way gun metal valves with wheels, threaded or flanged ends with rubber washers (standard pattern) Page No. 17, Item No. 4-b				
a	¾" dia	2	Each	227.92	455.84
b	1" dia	1	Each	271.92	271.92
44	<b>RCC PIPE</b> Providing following sizes RCC Pipe with collars class 'B' and digging the trench to required depth and fixing imposition including cutting, fitting and jointing with maxphalt composition & cement mortar 1:1 and testing with water pressure to a head of 4 feet above the top of the highest pipe and refilling with excavated stuff.				
a	4" dia (CH-X-Page No. 23, Item No. 2-b)	100.00	P.Rft	146.57	14,657.00
b	6" dia (CH-X-Page No. 23, Item No. 2-c)	150.00	P.Rft	199.25	29,887.50
45	<b>MANHOLE</b> Constructing manhole or inspectoin chamber for the required diameter of circular sewer and 3'-6" (1067 mm) dept with walls of BB in cement sand mortar 1:3 cement plastered 1:3, ½" thick inside of walls and 1" thick over benching and channel including fixing C.I.Mahole cover with frame of clear opening 1-½' X 1-½' of 1.75 cwt. (88.9 kg) embaded in plain CC 1:2:4 and fixing 6" dia MS steps 6" wide projecting 4" from the face of wall at 12" CC duly painted etc. complete as per standard specifications and drawing. (4" to 12" dia 2' X 2' X 3'-6") Page No. CH-II, Page No. 46, Item No. P-a.	2	Each	14,748.00	29,496.00
Sub Total				Rs=	198,916.26
____ above / below					
Cost of Plumbing Work (Scheduled Items)					

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**REPAIRING WORK BILL OF QUANTITIES**

Non Scheduled Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
46	<b>MUSLIM BIB COCK</b> Providing and fixing chromium plated Muslim Bib Cock without Muslim Shower of (Master Make best quality). Complete in all respect as per instructions of Engineer-in-Charge.	4	Each		
47	<b>FLOOR TRAP</b> Providing and fixing approved make best quality PVC Floor Trap of 100 mm dia with stainless top cover (150 mm x 150 mm) and stainless steel grating with or without a vent arm complete with and including making requisite number of holes in walls, plinth and floor for pipe connection and making good in cement concrete 1:2:4. Complete in all respect as per instructions of Engineer-in-Charge.	4	Each		
48	<b>GULLY TRAP</b> Making CC 1:2:4 Gully Trap of 12" X 12" internal dimension, including excavation, CC 1:4:8 brick masonry, plaster, C.I. Cover and frame, number of holes etc. complete in all respect as per drawings, design and instructions of the Architect / Engineer-in-Charge.	4	Each		
49	<b>CHECK VALVE</b> Providing & fixing 1½" dia brass chuck valve complete with best quality kit of approved make. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
50	<b>FOOT VALVE</b> Providing & fixing best quality approved make required dia brass foot valve complete with kit local make. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		

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**REPAIRING WORK BILL OF QUANTITIES**

Non Scheduled Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
51	<b>MONO BLOCK PUMPING SET</b> Providing and fixing mono block pumping set complete with 2 HP pump 2900 RPM complete with AC 220 V single phase motor on a common base plate having suction & discharge 1-½" X 1-½" as approved including excavation, cast of RC foundation in ratio 1:2:4 S.R.C fairface including supply and installation of foundation bolts and nuts etc. of required dia meter. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
52	<b>BRAS GATE VALVE</b> Providing & fixing brass gate valve 1½" dia handle type imported make. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
53	<b>MOTOR STARTER</b> Providing and fixing manual operated star delta starter suitable for AC. Single phase 50 cycle supply upto 12/25 amps trip rating on a prepared board. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
54	<b>3" DIA NON RETURN VALVE</b> Providing & fixing 1½" dia non return valve. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
Cost of Plumbing Works (Non-Schedule Items)				Rs=	